



NPD12250

AGM Deep Cycle Battery

General Features

- Oxygen recombination technology: maintenance-free.
- The patent grid alloy: less gassing, low self-discharging.
- Special paste formula: additives for deep discharge, long cycle life.
- High quality AGM separator: extend cycle life and prevent micro short circuit.
- The patent Nano silica gel electrolytes: improve the deep discharge performance.
- Cast on strap (COS) welding technology for high consistency and reliability.
- ABS container: increase the strength of battery.



Application

- Electric vehicle
- Lawn mowers
- Illumination light
- Wheelchairs
- Sweeper
- Electric toys
- Electric tools
- Golf trolley and golf cart

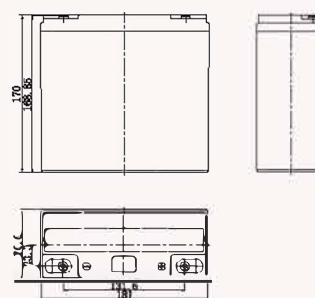
Specification

Nominal Voltage	12V
Nominal Capacity	25Ah, C20@1.80Vpc, 25°C(77°F)
Dimension	Length 181mm(7.13 inch)
	Width 77mm(3.03 inch)
	Container Height 169mm(6.65 inch)
	Total Height (With Terminal) 170mm(6.69 inch)
Rated Capacity (25°C/77°F)	25Ah/(20Hr, 1.80V/cell)
	24Ah/(10Hr, 1.80V/cell)
	21Ah/(5Hr, 1.75V/cell)
	20Ah/(3Hr, 1.75V/cell)
	17Ah/(1Hr, 1.70V/cell)
Weight	6.5Kg±5%(14.33lbs)
Terminal	Female Copper Insert M5
Container Material	ABS
Operating Temp. Range	Discharge: -20 to +50°C(-4~122°F)
	Charge: -20 to +50°C(-4~122°F)
	Storage: -20 to +50°C(-4~122°F)
Capacity affected by Temperature	102% @ 40°C(104°F)
	100% @ 25°C(77°F)
	85% @ 0°C(32°F)
	65% @ -15°C(5°F)

Terminal Unit:mm



Dimension Unit:mm



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YHI POWER Pty. Ltd Melbourne Head Office: 20-22 Venture Way, Braeside, VIC 3195 Ph: 03 9588 1888 Web: yhipower.com.au

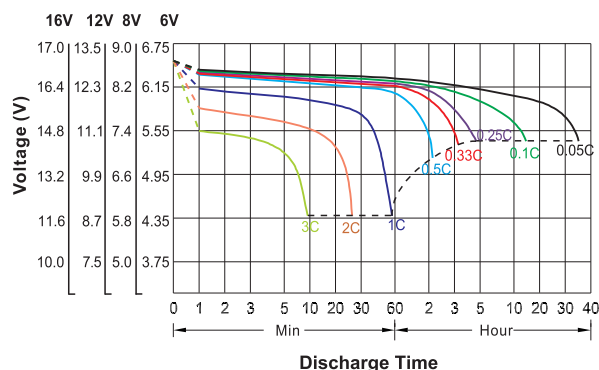
Discharge performance

Constant Current Discharge Table (25°C/77°F) Unit: A															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	79.2	54.0	46.0	37.8	27.8	19.8	15.72	9.40	6.44	4.91	4.01	3.38	2.65	2.33	1.23
1.80V/cell	85.5	56.3	47.1	38.7	28.7	20.4	16.18	9.61	6.60	5.02	4.09	3.47	2.72	2.40	1.25
1.75V/cell	90.4	58.9	48.4	39.7	29.6	21.2	16.8	9.88	6.78	5.17	4.24	3.59	2.80	2.45	1.27
1.70V/cell	93.0	60.3	50.0	40.7	30.3	21.7	17.4	10.12	6.92	5.32	4.36	3.69	2.90	2.50	1.28
1.65V/cell	94.8	62.2	51.2	41.7	31.0	22.4	18.0	10.34	7.11	5.45	4.47	3.79	2.97	2.55	1.31
1.60V/cell	97.2	64.8	53.0	43.1	31.8	23.0	18.3	10.66	7.34	5.63	4.58	3.89	3.04	2.60	1.33

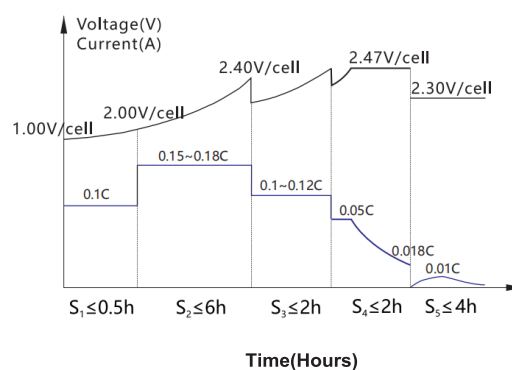
Constant Power Discharge Table (25°C/77°F) Unit: W															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	147.5	101.4	87.0	72.4	53.7	38.7	30.78	18.53	12.75	9.76	7.99	6.75	5.29	4.66	2.47
1.80V/cell	157.2	104.3	88.2	73.3	54.9	39.4	31.51	18.85	13.02	9.94	8.12	6.90	5.42	4.79	2.5
1.75V/cell	162.2	107.1	89.3	74.3	56.1	40.7	32.5	19.28	13.31	10.19	8.39	7.12	5.57	4.88	2.53
1.70V/cell	162.7	107.7	91.3	75.4	57.0	41.5	33.5	19.68	13.55	10.45	8.59	7.29	5.76	4.98	2.56
1.65V/cell	163.3	109.9	92.4	76.9	57.9	42.7	34.6	20.05	13.87	10.67	8.78	7.48	5.88	5.06	2.61
1.60V/cell	163.7	111.5	94.1	78.4	58.9	43.4	34.9	20.49	14.21	10.96	8.97	7.64	6.00	5.16	2.64

Performance Curve

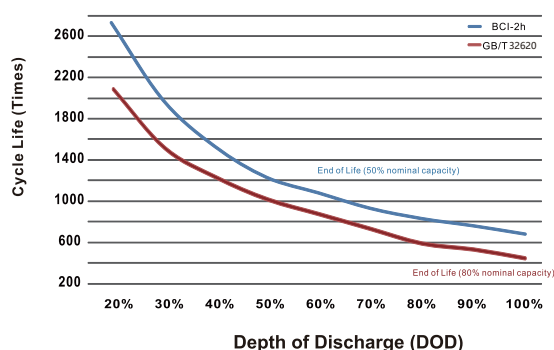
Discharge Characteristics (25°C)



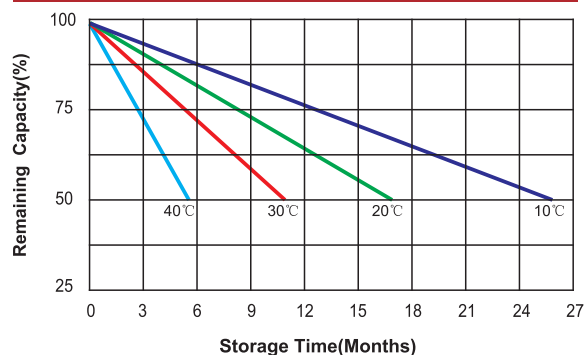
Charge Characteristics (20°C)



Discharge Characteristics (25°C)



Discharge Characteristics (25°C)



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